STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/560,605_

Source: _1FWP_

Date Processed by STIC: _9/8/06_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314
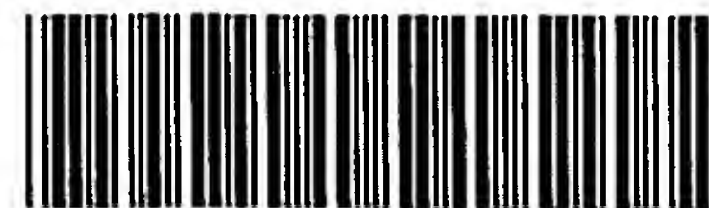
Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: _10/560,605_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics
       Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2____Invalid Line Length

The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3____Misaligned Amino
       Numbering

The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4____Non-ASCII

The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5____Variable Length

Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0
       "bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7____Skipped Sequences
       (OLD RULES)

Sequence(s)_____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8____Skipped Sequences
       (NEW RULES)

Sequence(s)_____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's
       (NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.

10____Invalid <213>
         Response

Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence. (see item 11 below)

11____Use of <220>

Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules

12____PatentIn 2.0
         "bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____ Misuse of n/Xaa

"n" can **only** represent a single <u>nucleotide</u>; "Xaa" can **only** represent a single <u>amino acid</u>

AMC – STIC Systems Branch – 03/02/06

RAW SEQUENCE LISTING   DATE: 09/08/2006
PATENT APPLICATION: US/10/560,605   TIME: 13:36:44

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\09082006\J560605.raw**

```
 5 <110> APPLICANT: Indian Council of Medical Research
 7         University of Delhi
11 <120> TITLE OF INVENTION: Mutants of Mycobacteria and process thereof
15 <130> FILE REFERENCE: 11378.0066USWO
17 <140> CURRENT APPLICATION NUMBER: US 10/560,605
18 <141> CURRENT FILING DATE: 2005-12-13
20 <150> PRIOR APPLICATION NUMBER: PCT/IN2004/000203
21 <151> PRIOR FILING DATE: 2004-07-09
24 <150> PRIOR APPLICATION NUMBER: IP882/DEL/2003
25 <151> PRIOR FILING DATE: 2003-07-09
29 <160> NUMBER OF SEQ ID NOS: 16
33 <170> SOFTWARE: PatentIn version 3.1
37 <210> SEQ ID NO: 1
39 <211> LENGTH: 32
41 <212> TYPE: DNA
43 <213> ORGANISM: Artificial Sequence
47 <220> FEATURE:
49 <223> OTHER INFORMATION: The primer was synthesized
51 <400> SEQUENCE: 1
52 ccatcatgac gtcgtctgac aacggagcgt cc                        32
55 <210> SEQ ID NO: 2
57 <211> LENGTH: 32
59 <212> TYPE: DNA
61 <213> ORGANISM: Synthesized
65 <400> SEQUENCE: 2
66 gggcatatgg caacaccccg gccgcccgct cg                        32
69 <210> SEQ ID NO: 3
71 <211> LENGTH: 33
73 <212> TYPE: DNA
75 <213> ORGANISM: Synthesized
79 <400> SEQUENCE: 3
80 gggcatatga cgctcggctg ttgcggcagc tcg                       33
83 <210> SEQ ID NO: 4
85 <211> LENGTH: 32
87 <212> TYPE: DNA
89 <213> ORGANISM: Synthesized
93 <400> SEQUENCE: 4
94 ccatcatgac ggtggctggc cccgcggtgc gg                        32
97 <210> SEQ ID NO: 5
99 <211> LENGTH: 33
101 <212> TYPE: DNA
103 <213> ORGANISM: Synthesized
107 <400> SEQUENCE: 5
```

see pp 1-2

Does Not Comply Corrected Diskette Needed

invalid <213> response (see item 10 on Error Summary Sheet)

```
108 ccatcatgac tgtggaacct attcctgtcg gcc                         33
111 <210> SEQ ID NO: 6
113 <211> LENGTH: 36
115 <212> TYPE: DNA
117 <213> ORGANISM: Synthesized
121 <400> SEQUENCE: 6
122 gggcatatgg ctggattcg ccggctattc ctgtcg                       36
125 <210> SEQ ID NO: 7
127 <211> LENGTH: 33
129 <212> TYPE: DNA
131 <213> ORGANISM: Synthesized
135 <400> SEQUENCE: 7
136 gggcatatgg gtgctcaccc actgcttcgc ggg                         33
139 <210> SEQ ID NO: 8
141 <211> LENGTH: 33
143 <212> TYPE: DNA
145 <213> ORGANISM: Synthesized
149 <400> SEQUENCE: 8
150 ccatcatgag tcggtgaccc ccgtatagcc cgg                         33
153 <210> SEQ ID NO: 9
155 <211> LENGTH: 28
157 <212> TYPE: DNA
159 <213> ORGANISM: Synthesized
163 <400> SEQUENCE: 9
164 ggcatatggc tgtccgtgaa ctgccggc                               28
167 <210> SEQ ID NO: 10
169 <211> LENGTH: 35
171 <212> TYPE: DNA
173 <213> ORGANISM: Synthesized
177 <400> SEQUENCE: 10
178 ggacgcgttc atccgagcag caccccgcgc atccg                       35
181 <210> SEQ ID NO: 11
183 <211> LENGTH: 492
185 <212> TYPE: DNA
187 <213> ORGANISM: Mycobacterium tuberculosis
191 <400> SEQUENCE: 11
192 gtgtctgatc cgctgcacgt cacattcgtt tgtacgggca acatctgccg gtcgccaatg    60
194 gccgagaaga tgttcgccca acagcttcgc caccgtggcc tgggtgacgc ggtgcgagtg   120
196 accagtgcgg gcaccgggaa ctggcatgta ggcagttgcg ccgacgagcg ggcggccggg   180
198 gtgttgcgag cccacggcta ccctaccgac caccgggccg cacaagtcgg caccgaacac   240
200 ctggcggcag acctgttggt ggccttggac cgcaaccacg ctcggctgtt gcggcagctc   300
202 ggcgtcgaag ccgcccgggt acggatgctg cggtcattcg acccacgctc gggaacccat   360
204 gcgctcgatg tcgaggatcc ctactatggc gatcactccg acttcgagga ggtcttcgcc   420
206 gtcatcgaat ccgccctgcc cggcctgcac gactgggtcg acgaacgtct cgcgcggaac   480
208 ggaccgagtt ga                                                     492
211 <210> SEQ ID NO: 12
213 <211> LENGTH: 831
215 <212> TYPE: DNA
217 <213> ORGANISM: Mycobacterium tuberculosis
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RAW SEQUENCE LISTING   DATE: 09/08/2006
PATENT APPLICATION: US/10/560,605   TIME: 13:36:44

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\09082006\J560605.raw**

```
221 <400> SEQUENCE: 12
222 tcatccgagc agcaccccgc gcatccggtt gactgtggcc tggctgatac cggcgtcgcg      60
224 caggtagccg cccagcgatc cgtaggtctc gtcaatggtc tggcgtgcgg cggccaggta     120
226 ctccgcgcgg acacccagga ccccgtcgga cagccgggcc ttggtgaacg tcaccacctc     180
228 gggtgccagt tcggtgtcga aacgctgctg gatcatctcg gagatccggg cccgcagttg     240
230 tggcacggag tcgttgctgc gcaggtagtc ggcgacgatg acgtcgcggt ccaggccgac     300
232 cgcttcaagc accagcgcga ccacgaagcc ggtgcgatcc ttacccgcga agcagtgggt     360
234 gagcaccggg cgtccggcgg caagcagtgt gacgacacga tgtagcgcgc gctgtgctcc     420
236 attgcgcgtt gggaattggc gatactcgtc ggtcatgtag cgggtggccg cgtcatttat     480
238 cgactggctg gattcgccgg actcgccgtt ggacccgtca ttggttagca gcctcttgaa     540
240 tgcggtttcg tgcggcgctg agtcgtcggc gtcatcatcg gcgaggtcgg ggaacggcag     600
242 caggtggacg tcgatgccgt ccggaacccg tcctggaccg cggcgggcaa cctcccggga     660
244 cgaccgcagg tcggcaacgt cggtgatccc cagccggcgc agcgttgccc ggccggcgtc     720
246 gtcgaggcgg ctcagctcgc tggaccggaa cagccgcccc ggccgcaatg cggttgcggt     780
248 gtcggcgacg tcacgaaagt tccacgcgcc cggcagttca cggacagcca t               831
251 <210> SEQ ID NO: 13
253 <211> LENGTH: 2531
255 <212> TYPE: DNA
257 <213> ORGANISM. Mycobacterium tuberculosis
261 <400> SEQUENCE: 13
262 cgtcgtctga caacggagcg tccaaatcgt cgggcacgcg gtacacgcca tggtcaatgc      60
264 ctaaccgccg agtctcatga ggatgcagcg gcacaagctt tgctaccggc tcgccgcggc     120
266 gggcaatctc aacctctgcc cgccgtagac gagccgcagc agctcggaca ggcgtgtctt     180
268 cgcctcgtga acgccgaccc gcttcgcagg cgcccagact ttcgcgtcga ccacctgctc     240
270 accaaacttc gcgatcatcg cctgatacca cagcgccaac gggtagcggt ttgtccaacc     300
272 gcttcgtcaa cgacaatggg atcgtgaccg acacgaccgc gagcgggacc aattgcccgc     360
274 ctcctccacg cgccgccgca cggcgcgcat cgtcgccggg tgaatcgccg cagctggtga     420
276 tcttcgatct ggacggcacg ctgaccgact cggcgcgcgg aatcgtatcc agcttccgac     480
278 acgcgctcaa ccacatcggt gccccagtac ccgaaggcga cctggccact cacatcgtcg     540
280 gcccgcccat gcatgagacg ctgcgcgcca tggggctcgg cgaatccgcc gaggaggcga     600
282 tcgtagccta ccgggccgac tacagcgccc gcggttgggc gatgaacagc ttgttcgacg     660
284 ggatcgggcc gctgctggcc gacctgcgca ccgccggtgt ccggctggcc gtcgccacct     720
286 ccaaggcaga gccgaccgca cggcgaatcc tgcgccactt cggaattgag cagcacttcg     780
288 aggtcatcgc gggcgcgagc accgatggct cgcgaggcag caaggtcgac gtgctggccc     840
290 acgcgctcgc gcagctgcgg ccgctacccg agcggttggt gatggtcggc gaccgcagcc     900
292 acgacgtcga cggggcggcc gcgcacggca tcgacacggt ggtggtcggc tggggctacg     960
294 ggcgcgccga ctttatcgac aagacctcca ccaccgtcgt gacgcatgcc gccacgattg    1020
296 acgagctgag ggaggcgcta ggtgtctgat ccgctgcacg tcacattcgt ttgtacgggc    1080
298 aacatctgcc ggtcgccaat ggccgagaag atgttcgccc aacagcttcg ccaccgtggc    1140
300 ctgggtgacg cggtgcgagt gaccagtgcg ggcaccggga actggcatgt aggcagttgc    1200
302 gccgacgagc gggcggccgg ggtgttgcga gcccacggct acgctcggct gttgcggcag    1260
304 ctcggcgtcg aagccgcccg ggtacggatg ctgcggtcat tcgacccacg ctcgggaacc    1320
306 catgcgctcg atgtcgagga tccctactat ggcgatcact ccgacttcga ggaggtcttc    1380
308 gccgtcatcg aatccgccct gcccggcctg cacgactggg tcgacgaacg tctcgcgcgg    1440
310 aacggaccga gttgatgccc cgcctagcgt tcctgctgcg gcccggctgg ctggcgttgg    1500
312 ccctggtcgt ggtcgcgttc acctacctgt gctttacggt gctcgcgccg tggcagctgg    1560
314 gcaagaatgc caaaacgtca cgagagaacc agcagatcag gtattccctc gacaccccgc    1620
316 cggttccgct gaaaaccctt ctaccacagc aggattcgtc ggcgccggac gcgcagtggc    1680
318 gccgggtgac ggcaaccgga cagtaccttc cggacgtgca ggtgctggcc cgactgcgcg    1740
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RAW SEQUENCE LISTING   DATE: 09/08/2006
PATENT APPLICATION: US/10/560,605   TIME: 13:36:44

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\09082006\J560605.raw**

```
320 tggtggaggg ggaccaggcg tttgaggtgt tggccccatt cgtggtcgac ggcggaccaa  1800
322 ccgtcctggt cgaccgtgga tacgtgcggc cccaggtggg ctcgcacgta ccaccgatcc  1860
324 cccgcctgcc ggtgcagacg gtgaccatca ccgcgcggct gcgtgactcc gaaccgagcg  1920
326 tggcgggcaa agacccattc gtcagagacg gcttccagca ggtgtattcg atcaataccg  1980
328 gacaggtcgc cgcgctgacc ggagtccagc tggctgggtc ctatctgcag ttgatcgaag  2040
330 accaacccgg cgggctcggc gtgctcggcg ttccgcatct agatcccggg ccgttcctgt  2100
332 cctatggcat ccaatggatc tcgttcggca ttctggcacc gatcggcttg ggctatttcg  2160
334 cctacgccga gatccgggcg cgccgccggg aaaaagcggg gtcgccacca ccggacaagc  2220
336 caatgacggt cgagcagaaa ctcgctgacc gctacggccg ccggcggtaa accaacatca  2280
338 cggccaatac cgcagccccc gcctggacca cccgcgacag caccacggcg cggcgcagat  2340
340 cggccacctt gggcgaccgg ccgtcgccca aggtgggccg gatctgcaac tcatggtggt  2400
342 accgggtggg cccacccagc cgcacgtcaa gcgccccagc aaacgccgcc tcgacgacac  2460
344 cggcgttggg gctgggatgg cgggcggcgt cgcgccgcca ggcccgtacc gcaccgcggg  2520
346 gcgacccacc g                                                       2531
349 <210> SEQ ID NO: 14
351 <211> LENGTH: 2890
353 <212> TYPE: DNA
355 <213> ORGANISM: Mycobacterium tuberculosis
359 <400> SEQUENCE: 14
360 gtcggtgacc cccgtatagc ccggcgacgt cggtaattta gtagcgccct cgacctgcgc    60
362 gggcgtgagg tccaaatact tggtgtgtac gaatgtgatg cctgcaaccg cgttgaggtc   120
364 ggaaatgaag ttgagcgggt atcgcgagaa gtcggcgaac ccgtcgtact cgagcgtgta   180
366 gatggccgtc ggatagatcg tgtccgaggg cgttgcgcca tagaacgtca ggtccagagt   240
368 cggaagcgtc agatccggga accgcgcgag cataccgcca ttggggttca tttcattgcc   300
370 gacaagcacg aaattgaggt cgctcgccga aggtgcggcc ccgcccatcg ccgtgaacct   360
372 ctgcatctcc agcgacgcga ttatggcgct ttgcgaccag ccgaaaacgg tgaccgcgtt   420
374 tccggtggtc gcgagctcta ccatgatcgc gtcgtgcaag atggtcaagc cctcttccac   480
376 tgacgtgttg aggaccaaac ttctgacacc ggtgagtggg tacaactctt cgggtgtgaa   540
378 gacggcttgt agcgcccgcc gaacggacct acagcgtatt ggcggcgtca acatagacgg   600
380 cggtggtagt ggaattccgg tgggcccaaa gaacaaggtg gtcaagttcg ccgggaatgg   660
382 cggaatcatc gcggccgccg cgggggttgg tgcggcggcg ggcacagcca gctgattttg   720
384 ccgggtgctg gcgatggcgg cctcggcatc tgcgtagctg ttcgccgcgg cggccaacgt   780
386 ctggtggaac ctaactgtga aacgcctcga cttgagcgag cacggcctgg tattcctggc   840
388 cgtatgcgcc gaacggtttc gcgatggcgg ccgacacctc atcgccggcc gccgcggcca   900
390 gtgcacacgt cgggcctgcc gcggccgcgc cggccgtact cacggccgaa ccgattcctg   960
392 ccacctcggc ggcggccgcc gctacgatcc gcggctcagc gatcagatac gacatcgtct  1020
394 cactccccta gcaccaggtg tcggccaacc gggtcaaccc ggggtttttgg tcagcccaga  1080
396 gcggtcccgc tgccctggtg gtcgcttacg cgaatcggat tcgcgcgaaa gcgtttcccc  1140
398 tcatccgagc agcaccccgc gcatccggtt gactgtggcc tggctgatac cggcgtcgcg  1200
400 caggtagccg cccagcgatc cgtaggtctc gtcaatggtc tggcgtgcgg cggccaggta  1260
402 ctccgcgcgg acacccagga ccccgtcgga cagccgggcc ttggtgaacg tcaccacctc  1320
404 gggtgccagt tcggtgtcga aacgctgctg gatcatctcg agatccgggg cccgcagttg  1380
406 tggcacggag tcgttgctgc gcaggtagtc ggcgacgatg acgtcgcggt ccaggccgac  1440
408 cgcttcaagc accagcgcga ccacgaagcc ggtgcgatcc ttacccgcga agcagtgggg  1500
410 gctggattcg ccggactcgc cgttggaccc gtcattggtt agcagcctct tgaatgcggt  1560
412 ttcgtgcggc gctgagtcgt cggcgtcatc atcggcgagg tcggggaacg gcagcaggtg  1620
414 gacgtcgatg ccgtccggaa cccgtcctgg accgcggcgg gcaacctccc gggacgaccg  1680
416 caggtcggca acgtcggtga tccccagccg gcgcagcgtt gcccggccgg cgtcgtcgag  1740
418 gcggctcagc tcgctggacc ggaacagccg ccccggccgc aatgcggttg cggtgtcggc  1800
```

RAW SEQUENCE LISTING   DATE: 09/08/2006
PATENT APPLICATION: **US/10/560,605**   TIME: 13:36:44

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\09082006\J560605.raw**

```
420 gacgtcacga aagttccacg cgcccggcag ttcacggaca gccatctcag gtgaccgccg   1860
422 cagcgaaggt ggacttctcc ctcgacagct cggcgcgggc gatggagcgc aggtgcacct   1920
424 cgtcgggacc gtcgaagatg cgcatggcgc ggtgccagcc gtacaaccgg gccagcgggg   1980
426 tgtcgtcgct gacgccggcg gccccgtgga cctggattgc gcggtcgatg acatcgcagg   2040
428 ccacccgcgg ggccaccgcc ttgatcatgg cgaccaggtg gcgcgcctct ttgttgccat   2100
430 gttggtcgat tgtccacgcc gccttttcgc acagcagcct tgcctggtcg atttcgttgc   2160
432 gggactgagc aatcgcctgt tgcacgacgc cctgttcggc tagcggacgg ccgaacgcca   2220
434 cccggttgcg gacgcgattc accatgagtg ccaaggcgcg ttcggccgcg cccagcgcac   2280
436 gcatgcagtg gtggatacgg cccggcccca gccgggcctg ggctatggcg aatccgctgc   2340
438 cctcttcgcc gagcaggttg gtggccggga cccggacgtt gtggtagtcg atctcgcagt   2400
440 ggccgtgccg gtcctgccag ccgaacaccg gtgtggagcg aacgatcgtc acgccggggg   2460
442 tgtcgatcgg gacgaggacc atcgactgct gttggtgggc ggctgcgtcc gggttggtgc   2520
444 ggcccatcac gatgaggatc ttgcaccgcg ggtccgccgc tcccgacgtc caccacttac   2580
446 ggccgttgat gacgtagtcg gcaccgtccc gggagatggt ggtttcgatg ttgcgggcgt   2640
448 cgctgctggc caccgccggc tcggtcatcg agaaggcgct gcggatcttg ccgtcgagca   2700
450 gcggccgcag ccattgcgcc cgttgctgct cggtgccgaa catgtgcagg atctccatgt   2760
452 tgccggtgtc cggtgcggcg cagttgagtg cctcgggcgc gatttccatg ctccatccgg   2820
454 tcatttcggc cagcggcgcg tactccaggt tggtcaatcc cgactcggcc gacaggaata   2880
456 ggttccacag                                                          2890
459 <210> SEQ ID NO: 15
461 <211> LENGTH: 4163
463 <212> TYPE: DNA
465 <213> ORGANISM: Artificial sequence
469 <220> FEATURE:
471 <223> OTHER INFORMATION: The sequence was produced in the lab
473 <400> SEQUENCE: 15
474 cgtcgtctga caacggagcg tccaaatcgt cgggcacgcg gtacacgcca tggtcaatgc     60
476 ctaaccgccg agtctcatga ggatgcagcg gcacaagctt tgctaccggc tcgccgcggc    120
478 gggcaatctc aacctctgcc cgccgtagac gagccgcagc agctcggaca ggcgtgtctt    180
480 cgcctcgtga acgccgaccc gcttcgcagg cgcccagact ttcgcgtcga ccacctgctc    240
482 accaaacttc gcgatcatcg cctgatacca cagcgccaac gggtagcggt ttgtccaacc    300
484 gcttcgtcaa cgacaatggg atcgtgaccg acacgaccgc gagcgggacc aattgcccgc    360
486 ctcctccacg cgccgccgca cggcgcgcat cgtcgccggg tgaatcgccg cagctggtga    420
488 tcttcgatct ggacggcacg ctgaccgact cggcgcgcgg aatcgtatcc agcttccgac    480
490 acgcgctcaa ccacatcggt gccccagtac ccgaaggcga cctggccact cacatcgtcg    540
492 gcccgcccat gcatgagacg ctgcgcgcca tggggctcgg cgaatccgcc gaggaggcga    600
494 tcgtagccta ccgggccgac tacagcgccc gcggttgggc gatgaacagc ttgttcgacg    660
496 ggatcgggcc gctgctggcc gacctgcgca ccgccggtgt ccggctggcc gtcgccacct    720
498 ccaaggcaga gccgaccgca cggcgaatcc tgcgccactt cggaattgag cagcacttcg    780
500 aggtcatcgc gggcgcgagc accgatggct cgcgaggcag caaggtcgac gtgctggccc    840
502 acgcgctcgc gcagctgcgg ccgctacccg agcggttggt gatggtcggc gaccgcagcc    900
504 acgacgtcga cggggcggcc gcgcacggca tcgacacggt ggtggtcggc tggggctacg    960
506 ggcgcgccga ctttatcgac aagacctcca ccaccgtcgt gacgcatgcc gccacgattg   1020
508 acgagctgag ggaggcgcta ggtgtctgat ccgctgcacg tcacattcgt ttgtacgggc   1080
510 aacatctgcc ggtcgccaat ggccgagaag atgttcgccc aacagcttcg ccaccgtggc   1140
512 ctgggtgacg cggtgcgagt gaccagtgcg ggcaccggga actggcatgt aggcagttgc   1200
514 gccgacgagc gggcggccgg ggtgttgcga gcccacggct tctagaggat ccccgggtac   1260
516 caagccctcg gcgacgttcc gccgggcctc ggcgaccgcc gcgtcgaggc gccggtcgga   1320
518 ggggcagtcc tccacgggca gctcgtggag ggcgcgggcc agctccgcca tcgcctcgac   1380
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/560,605**

DATE: 09/08/2006
TIME: 13:36:45

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\09082006\J560605.raw**